Sriharsha Meduri

🌐 Portfolio | ⬛ Sriharsha-Meduri | 💼 sriharsha-meduri | ✉ sriharshameduri07@gmail.com | 📱 +91 6302761059

WORK EXPERIENCE

Machine Learning Intern - iMerit Technology Services Pvt. Ltd.   12/2025 - Present

- Developing a post-hoc **OOD detection pipeline** for semantic segmentation in **autonomous driving**, benchmarking on KITTI, Fishyscapes, and nuScenes datasets.
- Implementing **MSP, ODIN, and Energy-score** techniques to identify edge cases and developing a software pipeline for failure mode analysis and mitigation.

Machine Learning Research Intern - IIM Shillong   09/2025 - 01/2026

- Conducted research on deep learning architectures for text classification, implementing LSTM and BiGRU models enhanced with GloVe embeddings to analyze customer complaints.
- Achieved **85% accuracy and F1-score** on large-scale datasets through systematic hyperparameter tuning and ablation studies; drafted a research paper (under review).

Web Development Intern - InsightKnox   09/2025 - 11/2025

- Developed the InsightKnox website from scratch using React.js, Tailwind CSS, Django, and MySQL, implementing **responsive design** for mobile and desktop screens.
- Improved mobile user retention by **22%** across **10K+ monthly visitors** by optimizing responsive UI layouts.

PROJECTS

LiveGuard AI - Multi-Modal Forensics   Github ‖ Demo

- Developed a forensics system integrating **Deepfake Detection** (CLIP-based) and **Synthetic Media Analysis** (XCLIP). Included an explainable risk scoring engine that aggregates multi-modal signals.
- Deployed independent analysis modules using **FastAPI** and **Docker** with a **React** frontend, ensuring low latency.

Technologies :- Python, FastAPI, React, Docker, PyTorch, XCLIP.

PhishingLens - Phishing Detection   Github ‖ Demo

- Built a production-grade system achieving **96% detection accuracy** by fusing 4 distinct threat intelligence sources (OTX, GNN, DistilBERT) with a consensus voting mechanism to reduce false positives by 40%.
- Architected a microservices backend on **Docker** with Prometheus monitoring, securing 5,00+ users via a Chrome extension.

Technologies :- Python, Docker, GNN, Transformers, React, AWS.

ACHIEVEMENTS

- **Winner** in **National Cybersecurity Hackathon** conducted by MeitY with a cash prize of **Rs. 5,000**.
- **Round 3 Qualifier** in **MumbaiHacks 2025**, competing among top national teams.
- **Qualified Round 1** (Internal) in **Smart India Hackathon (SIH) 2025**.
- **Co-Lead** at **GDSC Cybersecurity Chapter**, organizing workshops and CTFs for **200+ students**.
- **Published Research** on Deep Learning for Text Classification (Under review).

EDUCATION

08/2023 - 04/2027	B.Tech in Information Technology at **Andhra University** (AUCE)	CGPA: 8.0/10
	Coursework: Data Structures & Algorithms, DBMS, OS, Computer Networks.	

SKILLS

Languages:	Python, JavaScript, TypeScript, Java, C, SQL.
Web Dev:	React, FastAPI, Django, HTML, TailwindCSS, Node.js, Express.js, Microservices, MySQL.
ML / AI:	PyTorch, Scikit-learn, Transformers, GNN, Langchain, YOLOv8, TensorFlow.
DevOps:	Docker, Kubernetes, AWS, GCP, REST APIs, CI/CD, GitHub Actions.
Tools:	Git, Github, Figma, Wix, Notion, OAuth, Cursor, Postman.